

# Regenerative Fuel Cell System and Method of Operation Thereof

## Abstract

A regenerative fuel cell system is provided having at least one hydrogen storage container fluidly coupled to at least one hydrogen generator and at least one power generator. Each power generator further includes a fuel cell fluidly coupled to the hydrogen storage container, an electric energy storage device, and an unregulated dc bus electrically connected to said fuel cell and said electric storage device. The system further provides for a health monitoring system for determining the occurrence of critical events which may necessitate the disabling of the system.